

POWER ELECTRONICS & DRIVES

S.No	Title	Year
Solar Energy/PV Grid-Tied		
01	Nonlinear PWM-Controlled Single-Phase Boost Mode Grid-Connected Photovoltaic Inverter With Limited Storage Inductance Current	2017 IEEE
02	Analysis, Design, Modeling and Control of an Interleaved Boost full bridge three-port converter for Hybrid Renewable Energy Systems	
03	Single-Stage Three-Phase Current-Source Photovoltaic Grid-Connected Inverter High Voltage Transmission Ratio	
04	Reactive Power Control for Single-phase Grid-tie Inverters using Quasi Sinusoidal Waveform	
05	An Improved Zero-Current-Switching Single-Phase Transformerless PV H6 Inverter with Switching Loss-Free	
06	A Single-Phase Transformerless Inverter With Charge Pump Circuit Concept for Grid-Tied PV Applications	
07	Modulation Technique for Single-Phase Transformerless Photovoltaic Inverters with Reactive Power Capability	
Electric Vehicles/ESS		
08	Implementation of Multiple Input and Multiple Output Boost Converter for Electric Vehicle Charging System	2017 IEEE
09	Bidirectional Single-Stage Grid-Connected Inverter for a Battery Energy Storage System	
10	Electric Vehicle Charging Station With an Energy Storage Stage for Split-DC Bus Voltage Balancing	
11	A Decentralized Dynamic Power Sharing Strategy for Hybrid Energy Storage System in Autonomous DC Microgrid	
12	A Novel Step-up Multi-Input DC-DC Converter for Hybrid Electric Vehicles Application	
13	Improvement of Power Quality Using a Robust Hybrid Series Active Power Filter	
14	Control of a Hybrid AC/DC Microgrid Involving Energy Storage and Pulsed Loads	

Buck-Boost/Interleaved		
15	A Novel Structure for Single-Switch Nonisolated Transformerless Buck–Boost DC–DC Converter	2017 IEEE
16	Analysis, Design, Modeling, and Control of an Interleaved-Boost Full-Bridge Three-Port Converter for Hybrid Renewable Energy Systems	
17	Zero-Voltage-Transition Interleaved Boost Converter With an Auxiliary Coupled Inductor	
18	Interleaved Switched-Capacitor Bidirectional DC-DC Converter with Wide Voltage-Gain Range for Energy Storage Systems	
19	Dual-DC-Port Asymmetrical Multilevel Inverters With Reduced Conversion Stages and Enhanced Conversion Efficiency	
20	A Highly Reliable and High-Efficiency Quasi Single-Stage Buck–Boost Inverter	
21	A Four-Switch Single-Stage Single-Phase Buck–Boost Inverter	
22	Interleaved Resonant Boost Inverter Featuring SiC Module for High-Performance Induction Heating	
23	A New Negative Output Buck-Boost Converter with Wide Conversion Ratio	
24	Maximum Boost Control of Diode-Assisted Buck–Boost Voltage-Source Inverter With Minimum Switching Frequency	
Multilevel Inverters		
25	A Novel Nine-Level Inverter Employing One Voltage Source and Reduced Components as High-Frequency AC Power Source	2017 IEEE
26	A New Six-Switch Five-Level Active Neutral Point Clamped Inverter for PV Applications	
27	A Multilevel Transformerless Inverter employing Ground Connection between PV Negative Terminal and Grid Neutral point	
28	Quasi Cascaded H-Bridge Five-Level Boost Inverter Z-Source Inverters	
29	Design and Implementation of a Sensorless Multilevel Inverter With Reduced Part Count	

Z Source Inverters		
30	Steady-State Analysis and Design Considerations of High Voltage Gain Switched Z-Source Inverter With Continuous Input Current	2017 IEEE
31	Enhanced-Boost Quasi-Z-Source Inverters with Two Switched Impedance Network	
32	High-Voltage Gain Half-Bridge Z-Source Inverter With Low-Voltage Stress on Capacitors	
33	SiC-Based Z-Source Resonant Converter With Constant Frequency and Load Regulation for EV Wireless Charger	
34	Load and Source Battery Simulator Based on Z-Source Rectifier	
35	Hybrid Z-Source Boost DC–DC Converters	
36	Wide Input-Voltage Range Boost Three-Level DC–DC Converter With Quasi-Z Source for Fuel Cell Vehicles	
Bidirectional/LED/ZVZCS/DC-DC Converters		
37	Bidirectional Current-Fed Half-Bridge (C)(LC)–(LC) Configuration for Inductive Wireless Power Transfer System	2017 IEEE
38	A Novel Structure for Single-Switch Nonisolated Transformerless Buck–Boost DC–DC Converter	
39	A High-Voltage-Gain DC–DC Converter Based on Modified Dickson Charge Pump Voltage Multiplier	
40	Ultralarge Gain Step-Up Coupled-Inductor DC–DC Converter With an Asymmetric Voltage Multiplier Network for a Sustainable Energy System	
41	A Family of True Zero Voltage Zero Current Switching (ZVZCS) Nonisolated Bidirectional DC–DC Converter With Wide Soft Switching Range	
42	Modeling and Analysis of Dual-Active-Bridge Isolated Bidirectional DC/DC Converter to Minimize RMS Current with Whole Operating Range	
43	A Dual-Buck–Boost AC/DC Converter for DC Nanogrid With Three Terminal Outputs	
44	An AC–DC LED Driver With a Two-Parallel Inverted Buck Topology for Reducing the Light Flicker in Lighting Applications to Low-Risk Levels	

45	Single-Stage Single-Switch Four-Output Resonant LED Driver With High Power Factor and Passive Current Balancing	
46	Single-Switch Coupled-Inductor-Based Two-Channel LED Driver With a Passive Regenerative Snubber	
PFC/Resonant		
47	High-Efficiency Bridgeless Three-Level Power Factor Correction Rectifier	2017 IEEE
48	A Single-Switch AC–DC LED Driver Based on a Boost-Flyback PFC Converter With Lossless Snubber	
49	Flexible Mode Bridgeless Boost PFC Rectifier With High Efficiency Over a Wide Range of Input Voltage	
50	A Family of Single-Phase Voltage-Doubler High-Power-Factor SEPIC Rectifiers Operating in DCM	
51	A Family of Single-Phase Hybrid Step-Down PFC Converters	
52	High-Efficiency Soft-Switching AC–DC Converter With Single-Power-Conversion Method	
53	A Quasi-Resonant Current-Fed Converter With Minimum Switching Losses	
54	Design and Steady-State Analysis of Parallel Resonant DC–DC Converter for High-Voltage Power Generator	
55	Reducing the Inductors of Rectifiers Having Two Outputs to Improve Power Density	
Drives		
56	A Performance Investigation of a Four-Switch Three-Phase Inverter-Fed IM Drives at Low Speeds Using Fuzzy Logic and PI Controllers	2017 IEEE
57	A Novel Method of Reducing Commutation Torque Ripple for Brushless DC Motor Based on Cuk Converter	
58	Design and Demonstration of High Power Density Inverter for Aircraft Applications	
59	Commutation Torque Ripple Reduction in BLDC Motor Using Modified SEPIC Converter and Three-level NPC Inverter	

60	Non-isolated Bidirectional Soft-Switching Current-Fed LCL Resonant DC/DC Converter to Interface ES in DC Microgrid	2016 IEEE
61	A Novel Transformer-less Interleaved Four-Phase Step-Down DC Converter With Low Switch Voltage Stress and Automatic Uniform Current-Sharing Characteristics	
62	A Bridgeless Totem-pole Interleaved PFC Converter for Plug-In Electric Vehicles	
63	Analysis and Design of Modified Half-Bridge Series-Resonant Inverter With DC-Link Neutral-Point-Clamped Cell	
64	Single-Stage AC/DC Single-Inductor Multiple-Output LED Drivers	
65	Efficient Single Phase Transformerless Inverter for Grid-Tied PVG System With Reactive Power Control	
66	A Single-Phase PV Quasi-Z-Source Inverter With Reduced Capacitance Using Modified Modulation and Double-Frequency Ripple Suppression Control	
67	A ZVS Grid-Connected Full-Bridge Inverter With a Novel ZVS SPWM Scheme	
68	Single-Phase Input Variable-Speed AC Motor System Based on an Electrolytic Capacitor-Less Single-Stage Boost Three-Phase Inverter	
69	SinglePhase Cascaded H5 Inverter with Leakage Current Elimination for Transformerless Photovoltaic System	
70	A Single DC Source Cascaded Seven-Level Inverter Integrating Switched Capacitor Techniques	
71	Design of External Inductor for Improving Performance of Voltage Controlled DSTATCOM	
72	Highly Reliable Transformerless Photovoltaic Inverters With Leakage Current and Pulsating Power Elimination	
73	Multi-input Step-Up Converters Based on the Switched-Diode-Capacitor Voltage Accumulator	
74	Transformerless Photovoltaic Inverter Based on Interleaving High-Frequency Legs Having Bidirectional Capability	

75	A Novel High Step-up DC/DC Converter Based on Integrating Coupled Inductor and Switched-Capacitor Techniques for Renewable Energy Applications	2015 IEEE
76	A Bidirectional LLC Resonant Converter With Automatic Forward and Backward Mode Transition	
77	A High Step-Up DC to DC Converter Under Alternating Phase Shift Control for Fuel Cell Power System	
78	A BL-CSC Converter-Fed BLDC Motor Drive With Power Factor Correction	
79	Five-Level Multiple-Pole PWM AC-AC Converters With Reduced Components Count	
80	Five-Level Inverter Using POD PWM Technique	
81	A Bidirectional Modular Multilevel DC-DC Converter of Triangular Structure	
82	Input-Series-Output-Parallel-Connected Buck Rectifiers for High-Voltage Applications	
83	Transformerless Hybrid Power Filter Based on a Six-Switch Two-Leg Inverter for Improved Harmonic Compensation Performance	
84	Novel Modular Multiple-Input Bidirectional DC-DC Power Converter (MIPC) for HEV/FCV Application	
85	Bridgeless PFC-Modified SEPIC Rectifier With Extended Gain for Universal Input Voltage Applications	
86	Large-Signal Characterization of Power Inductors in EV Bidirectional DC-DC Converters Focused on Core Size Optimization	
87	A High Gain Input-Parallel Output-Series DC/DC Converter With Dual Coupled Inductors	
89	PFC Cuk Converter-Fed BLDC Motor Drive	
90	A Dual-Active Bridge Topology With a Tuned CLC Network	